IN THE CLAIMS:

Please amend claims 1, 10, and 13 as indicated below.

Please cancel without prejudice claim 21.

- 1. (Currently Amended) A system, comprising:
 - a bus including a power line;
 - a bus bridge device including an internal logic unit; and
 - a power regulator to deliver power to the power line, the power regulator further to assert a fault signal to the bus bridge device if a power fault is detected on the bus, the bus bridge device to disconnect the internal logic unit from the bus in response to an assertion of the fault signal to prevent the internal logic unit from being corrupted with invalid data from the bus.
 - wherein the bus is a secondary PCI bus, wherein the bus bridge device is a PCI/PCI

 bridge bridging the secondary PCI bus to a primary PCI bus coupled to a

 processor via a system logic device, and wherein in response to the fault signal,

 the PCI/PCI bridge is configured to assert an error signal to the system logic

 device regarding a fault condition associated with the fault signal,

 the system logic device is configured to generate an interrupt to the processor,

 and
 - in response to the interrupt, the processor is configured to invoke system

 software to perform a predetermined operation, including at least one
 of scheduling a system shutdown and alerting a system administrator
 regarding the fault condition.

2. (Cancelled)

3. (Previously presented) The system of claim 1, the power regulator to cease to deliver

power to the power line if a power fault is detected.

4. (Original) The system of claim 3, the bus bridge device to assert an interrupt signal in

response to the assertion of the fault signal.

5. (Original) The system of claim 3, the bus bridge device to assert an error signal in

response to the assertion of the fault signal.

6. (Original) The system of claim 3, the bus bridge device to assert a power enable signal to

the power regulator upon system startup, the power regulator to deliver power to the power

line in response to the assertion of the power enable signal.

7. (Original) The system of claim 6, the bus bridge device to deassert the power enable signal

follow the assertion of the fault signal.

8. (Original) The system of claim 7, the power regulator module to deassert the fault signal

in response to the deassertion of the power enable signal.

9. (Original) The system of claim 8, wherein the bus is a PCI bus.

10. (Currently Amended) A bus bridge device, comprising:

a bus interface unit coupling the bus bridge device to a bus;

an internal logic unit coupled to the bus interface unit; and

a fault signal input coupled to receive a fault signal, the bus bridge device to

disconnect the internal logic unit from the bus in response to an assertion of the

fault signal to prevent the internal logic unit from being corrupted with invalid

data from the bus,

wherein the bus is a secondary PCI bus, wherein the bus bridge device is a PCI/PCI

bridge bridging the secondary PCI bus to a primary PCI bus coupled to a

processor via a system logic device, and wherein in response to the fault signal,

the PCI/PCI bridge is configured to assert an error signal to the system logic

device regarding a fault condition associated with the fault signal,

the system logic device is configured to generate an interrupt to the processor,

and

in response to the interrupt, the processor is configured to invoke system

software to perform a predetermined operation, including at least one
of scheduling a system shutdown and alerting a system administrator
regarding the fault condition.

- 11. (Original) The bus bridge device of claim 10, further comprising an interrupt signal output, the bus bridge device to assert the interrupt signal output in response to the assertion of the fault signal.
- 12. (Original) The bus bridge device of claim 10, further comprising an error signal output, the bus bridge device to assert the error signal in response to the assertion of the fault signal.

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13. (Currently Amended) A <u>computer implemented method for disabling a computer bus</u>
<u>upon detection of a power fault, the method comprising:</u>

applying power to a bus;

detecting a power fault on the bus;

removing power from the bus; and

asserting a fault signal to a bus bridge device; and

disconnecting an internal logic unit within the bus bridge device from the bus in response to the assertion of the fault signal to prevent the internal logic unit from being corrupted with invalid data from the bus.

wherein the bus is a secondary PCI bus, wherein the bus bridge device is a PCI/PCI

bridge bridging the secondary PCI bus to a primary PCI bus coupled to a

processor via a system logic device, and wherein in response to the fault signal,

the PCI/PCI bridge is configured to assert an error signal to the system logic

device regarding a fault condition associated with the fault signal,

the system logic device is configured to generate an interrupt to the processor,

and

in response to the interrupt, the processor is configured to invoke system

software to perform a predetermined operation, including at least one
of scheduling a system shutdown and alerting a system administrator
regarding the fault condition.

- 14. (Cancelled)
- 15. (Previously presented) The method of claim 13, further comprising asserting an interrupt signal in response to the assertion of the fault signal.

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16. (Previously presented) The method of claim 13, further comprising asserting an error signal in response to the assertion of the fault signal.

17. (Previously Presented) The system of claim 1, wherein the bus bridge device is to assert a power enable signal to the power regulator to enable the power regulator to deliver power to the bus when the power fault is not detected.

18. (Previously Presented) The system of claim 17, wherein in response to the detected power fault, the bus bridge device is to de-assert the power enable signal to the power regulator to enable the power regulator stop delivering the power to the bus.

19. (Previously Presented) The system of claim 18, wherein in response to the de-asserted power enable signal received from the bus bridge device, the power regulator is to de-assert the fault signal to the bus bridge device.

20. (Previously Presented) The system of claim 19, wherein the power regulator is not to deliver the power to the bus again until the power enable signal is asserted by the bus bridge device.

21. (Canceled)